

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Makoto IMANISHI et al.

Serial No. NEW

: **Attn: APPLICATION BRANCH**

Filed January 22, 2004

: Attorney Docket No. 2004-0092

METHOD OF FORMING BUMPS ON A
WAFER UTILIZING A POST-HEATING
OPERATION, AND AN APPARATUS
THEREFORE

THE COMMISSIONER IS AUTHORIZED
TO CHARGE ANY DEFICIENCY IN THE
FEES FOR THIS PAPER TO DEPOSIT
ACCOUNT NO. 23-0975

**(Rule 1.53(b) Divisional
of Serial No. 09/719,768,
Filed December 18, 2000)**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicant request
consideration of [X] the references listed on attached form PTO-1449 and/or [] the additional
information identified below in paragraph 3. A legible copy of each reference listed on the form
PTO-1449 and each U.S. patent application listed below is enclosed, except a copy is not
provided for each reference previously cited by or submitted to the Patent Office in prior parent
application Serial No. 09/719,768.

1a. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the
above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office
Action after the filing of an RCE,

and thus no certification and/or fee is required.

- 1b. This Information Disclosure Statement is submitted after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:
 - (1) the certification of paragraph 2 below is provided, **or**
 - (2) the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 1c. This Information Disclosure Statement is submitted: after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified
 - a. that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
 - b. that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

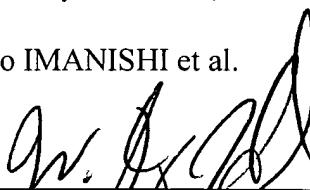
4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:
 - a. a full or partial English language translation submitted herewith,
 - b. a foreign patent office search report (in the English language) submitted herewith,
 - c. the concise explanation contained in the specification of the present application at page ,
 - d. the concise explanation set forth in the attached English language abstract,
 - e. the concise explanation set forth below or on a separate sheet attached to the reference:
5. A foreign patent office search report citing one or more of the references is enclosed.
6. Statement Under 37 CFR 1.704(d)

Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign Patent Office in a counterpart application, and this communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of the Information Disclosure statement.

Respectfully submitted,

Makoto IMANISHI et al.

By



W. Douglas Hamm

Registration No. 44,142

Attorney for Applicants

WDH/gtg
Washington, D.C. 20006-1021
Telephone (202) 721-8200
Facsimile (202) 721-8250
January 22, 2004

FORM PTO 1449 (modified)			ATTY DOCKET NO. 2004-0092	SERIAL NO. NEW			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			APPLICANT Makoto IMANISHI et al.				
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)			FILING DATE January 22, 2004		GROUP		
Date Submitted to PTO: January 22, 2004							
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,024,560	05/1977	Miller et al.			
	AB	4,518,848	05/1985	Weber			
	AC	6,544,377	04/2003	Minamitani et al.			
	AD	6,439,447	08/2002	Minamitani et al.			
	AE	6,329,640	12/2001	Narita et al.			
	AF	6,302,317	10/2001	Narita et al.			
	AG	6,506,222	01/2003	Minamitani et al.			
	AH	6,053,398	04/2000	Iizuka et al.			
	AI	4,846,623	07/1989	Otani et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	8-78418	03/1996	JP			Abstract
	AK	7-153763	06/1995	JP			Abstract
	AL	96/41109	12/1996	WO			
	AM	09-289241	04/1997	JP			Abstract
	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO	Patent Abstracts of Japan, vol. 1996, no. 07, July 31, 1996 (7/31/96) & JP 08 078418 A (Toshiba Corp.), March 22, 1996 (3/22/96) - English Abstract					
	AP	N. Miyazaki et al., "Thermal shock cracking of lithium niobate single crystal", Journal of Materials Science, Materials in Electronics, Chapman & Hall, Vol. 8, No. 3, pgs 133-138 (1997).					
	AQ						
EXAMINER			DATE CONSIDERED				

FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i> Date Submitted to PTO: January 22, 2004			ATTY DOCKET NO. 2004-0092		SERIAL NO. NEW		
			APPLICANT Makoto IMANISHI et al.				
			FILING DATE January 22, 2004		GROUP		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,430,271	07/1995	Orgami et al.			
	AB	5,489,192	02/1996	Taniguchi			
	AC	5,664,254	09/1997	Ohkura et al.			
	AD	5,817,178	10/1998	Mita et al.			
	AE	5,848,868	12/1998	Suzuki et al.			
	AF						
	AG						
	AH						
	AI						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	09-050957	02/1997	JP			
	AK						
	AL						
	AM						
	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO						
	AP						
	AQ						
EXAMINER			DATE CONSIDERED				